

# ***Providing Configuration Management in the Air Traffic Organization***

Operations Planning  
Configuration Management

April 8, 2004



# Agenda

- Getting Your Support
- ATO-P CM Responsibilities
- NAS CM Overview
- Managing the NAS
- Master Configuration Index
- NAS Change Process
- Current Configuration Control Board Structure
- CM in the ATO
- Next Steps
- Helpful Links

# Getting Your Support

**The objective is to identify personnel within your Service Unit for:**

- **Prescreening of case files**
- **Must Evaluation of NCPs,**
- **Coordination of changes**
- **CM Officer responsibilities**

## **CM Focal Points:**

Operations Planning:	Faye Jordan	(202) 385-7275
Acq & Business Svcs:	TBD	
En Route and Oceanic:	Stephen D. Anderson	(202) 385-7651
Terminal:	Jay Merkle	(202) 385-8371
Flight Service:	TBD	
System Operations:	Don Ward	(202) 385-8469
	Carl Sensi, contract support	(202) 314-1215
Technical Operations:	Don Lombard	(202) 267-8511

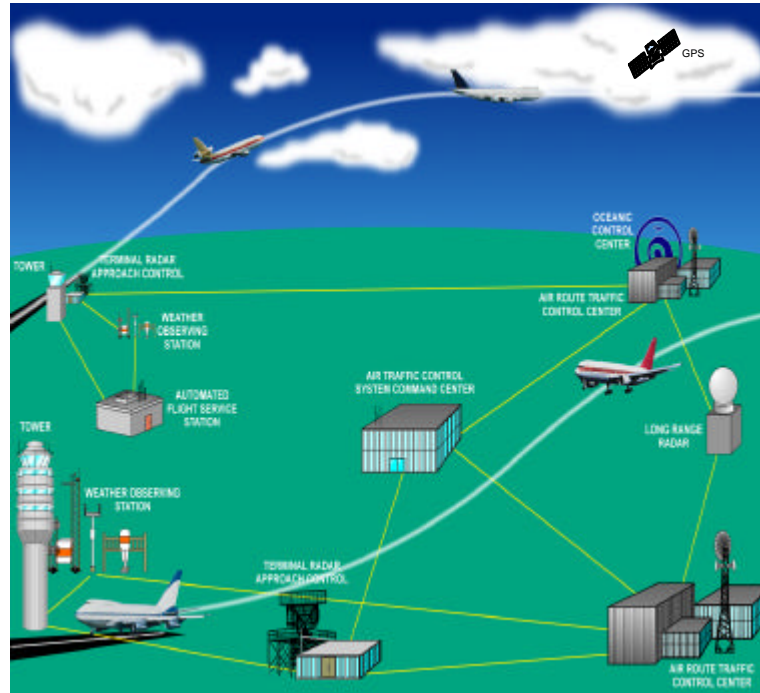
# ATO-P CM Responsibilities

- Focal point/process owner for ATO Configuration Management (CM)
- Enterprise Configuration Management Planning and Implementation
- Enterprise CM Policy, Procedures, and Guidance
- ATO CM Monitoring and Oversight
- *NAS Operations Configuration Control Board (CCB)*
- CM Information Management (Automation)
- Documentation Control Center (DCC)
- Executive and Practitioner Sponsorship
- CM Training, Awareness, Outreach, and Communication
- CM Related Agency Support
  - Agency Information System Security
  - System Engineering Safety Assessment
  - Agency System Engineering Manual
  - Data Release Review Committee (DRRC) Implementation and Operations
  - NAS Improvements Executive Group (Non-standard Systems)

# NAS CM Overview

## Configuration Management

- Essential for effective evolution and operation of the NAS
- Cornerstone of good programs
- Process to maintain traceability from the requirements through the acquisition process to operational systems



## ATO-P CM

- Provides overall infrastructure
- Works with the Service Units to support their ability to build and deliver systems
- Works with ATO and other Agency organizations to ensure effective system integration, operations and maintenance.

**The Performance of Configuration Management is mandated by the Acquisition Management Systems and FAA Order 1800.66**

# Managing the NAS

CM Planning & Management	Configuration Identification	Configuration Control	Configuration Status Accounting	Configuration Audits
<ul style="list-style-type: none"> <li>• CM Policy &amp; Procedures</li> <li>• NAS CMPP</li> <li>• CCB Charters &amp; Operating Procedures</li> <li>• CMSG/CMCT</li> <li>• CM Plans</li> </ul>	<p><b>Guidance for Establishment of Configuration Baselines:</b></p> <ul style="list-style-type: none"> <li>• Functional</li> <li>• Product</li> <li>• Operational</li> <li>• Facility</li> </ul> <ul style="list-style-type: none"> <li>• FA Type Number Assignment</li> <li>• FAA Spec and Interface Document Number Assignment</li> </ul>	<p><b>Mechanisms and Guidance to:</b></p> <ul style="list-style-type: none"> <li>• Identify Need</li> <li>• Describe Change</li> <li>• Coordinate and Review</li> <li>• Disposition Change</li> <li>• Implement Change</li> <li>• Monitor Implementation</li> <li>• Capture Change Data</li> </ul>	<p><b>Mechanisms and Guidance to Ensure:</b></p> <ul style="list-style-type: none"> <li>• Capture Vendor Change Vehicle (PTR/HDR/ECP) Status</li> <li>• Capture CF/NCP/CCD Status</li> <li>• Capture Change Release (SSD, SPB) Status</li> <li>• Capture Associated Baseline Status</li> </ul>	<p><b>Perform and Provide Guidance for:</b></p> <ul style="list-style-type: none"> <li>• Monitoring and Oversight <ul style="list-style-type: none"> <li>• Agency CM Operations</li> <li>• Contractor CM</li> </ul> </li> <li>• Manage &amp; Verify <ul style="list-style-type: none"> <li>• Internal Audits</li> <li>• FCA/PCA</li> <li>• Baselines</li> </ul> </li> </ul>
<p><b>Data/Document Repository</b></p>	<p><b>Provide Enterprise Level Secure Storage and Accessibility to Program Information including:</b></p> <ul style="list-style-type: none"> <li>• Documents</li> <li>• Drawings</li> <li>• SW Code</li> <li>• Change Data</li> <li>• Plans</li> </ul>			

*CM is “a process for establishing and maintaining consistency of a product’s performance, functional and physical attributes with its requirements, design, and operational information throughout its life.”*

## Master Configuration Index (MCI)

**JULY 1998**

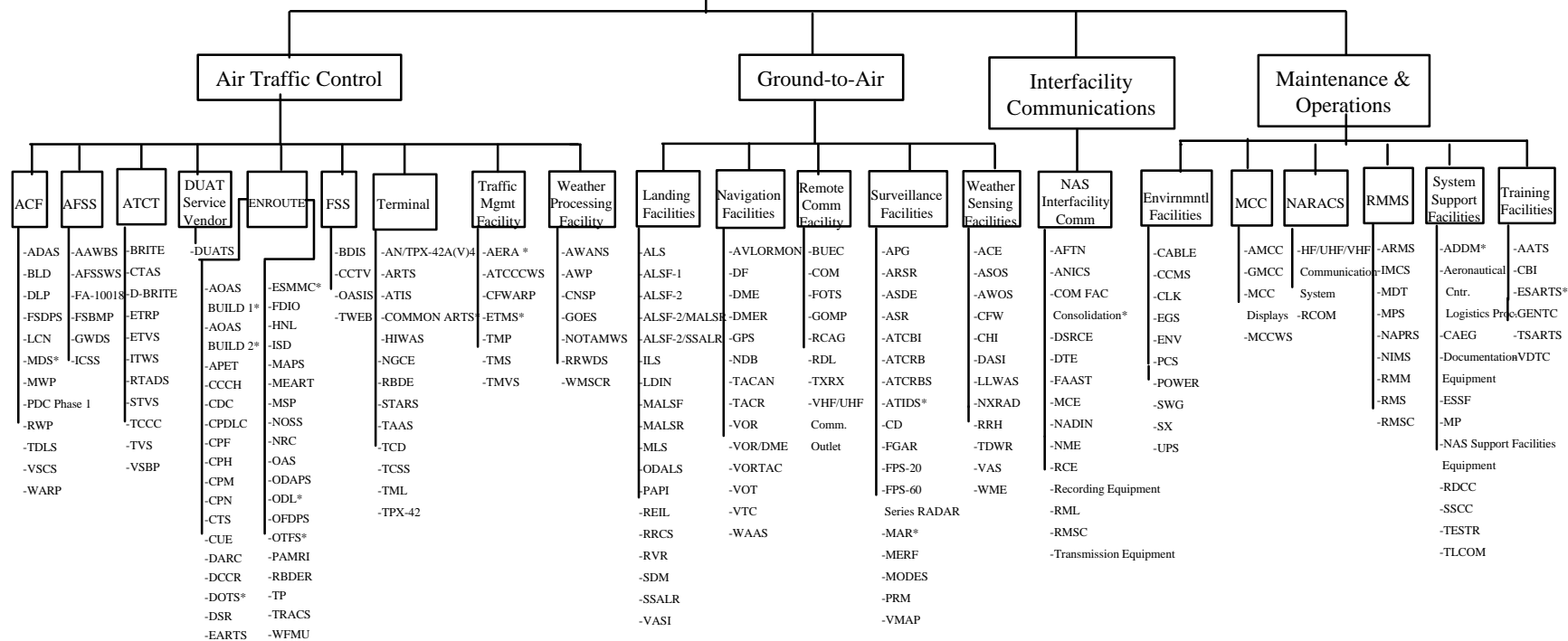
# National Airspace System

## System

## Elements

### Sub-Elements

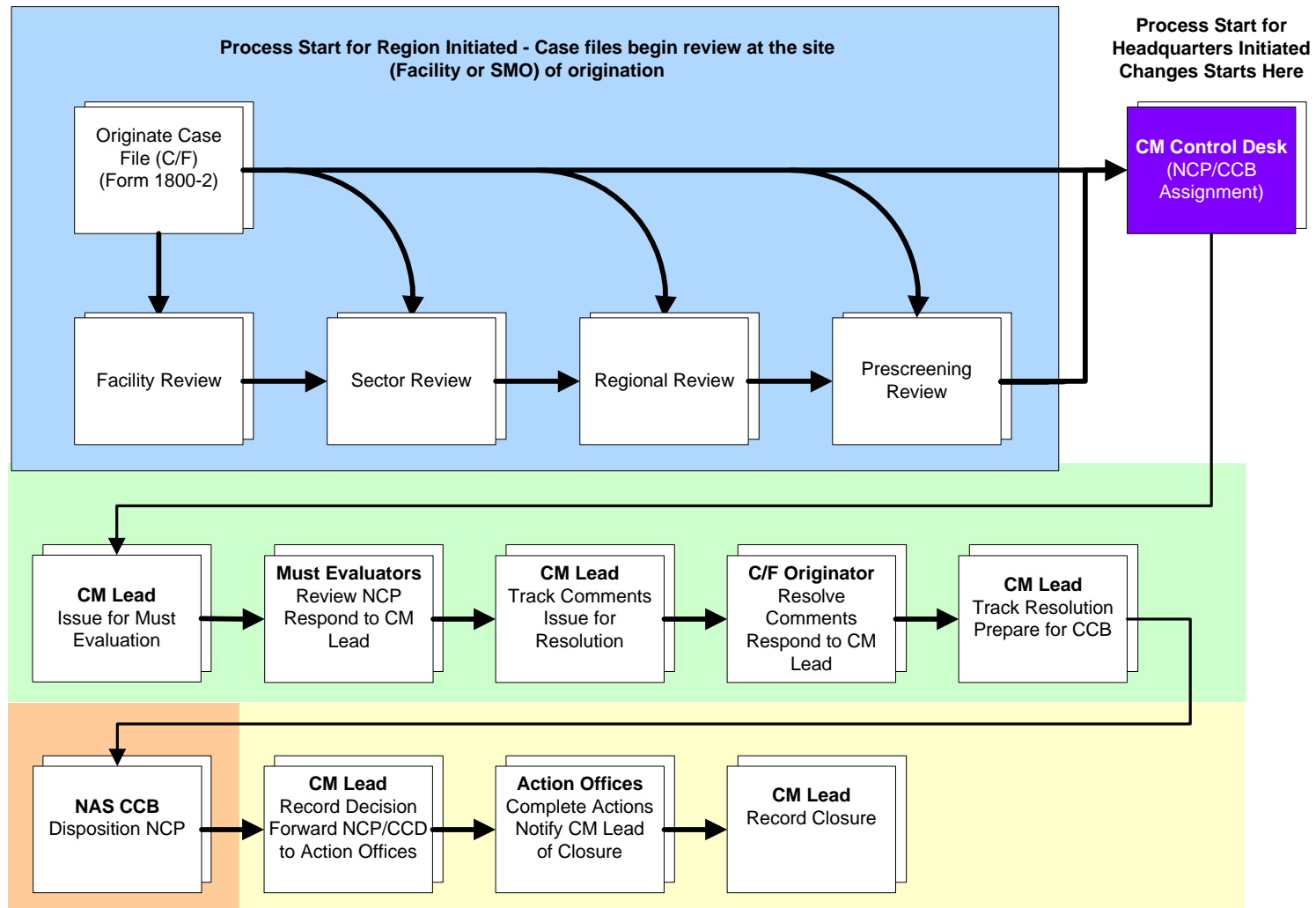
### Subsystems



**\*\*Note\*\***

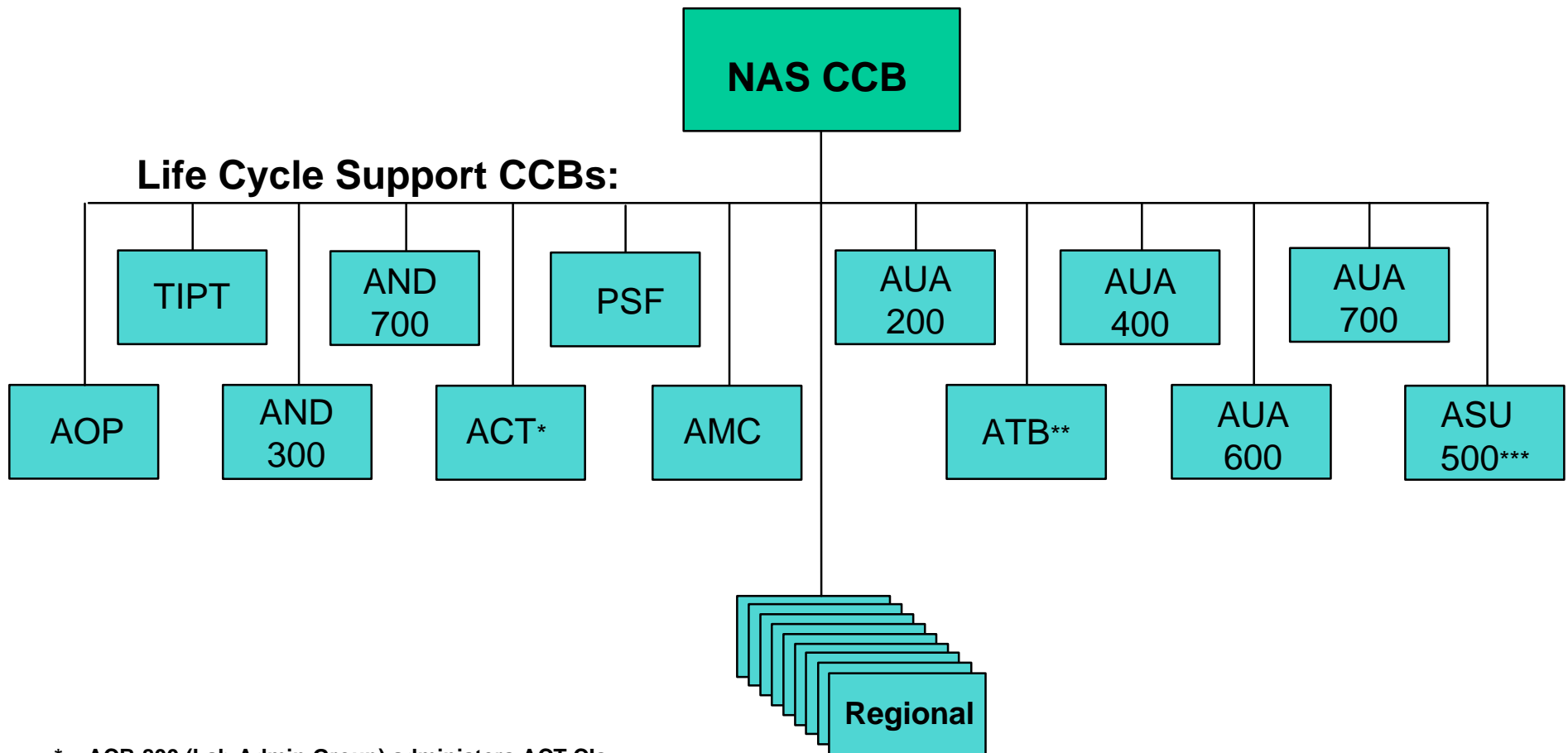
This chart represents configuration items (CI) and their relationships down to the first subsystem level as captured in DOCCON. Both baselined and non-baselined (\*) subsystems are represented.

# NAS Change Process





# Current (Pre-ATO) CCB Structure



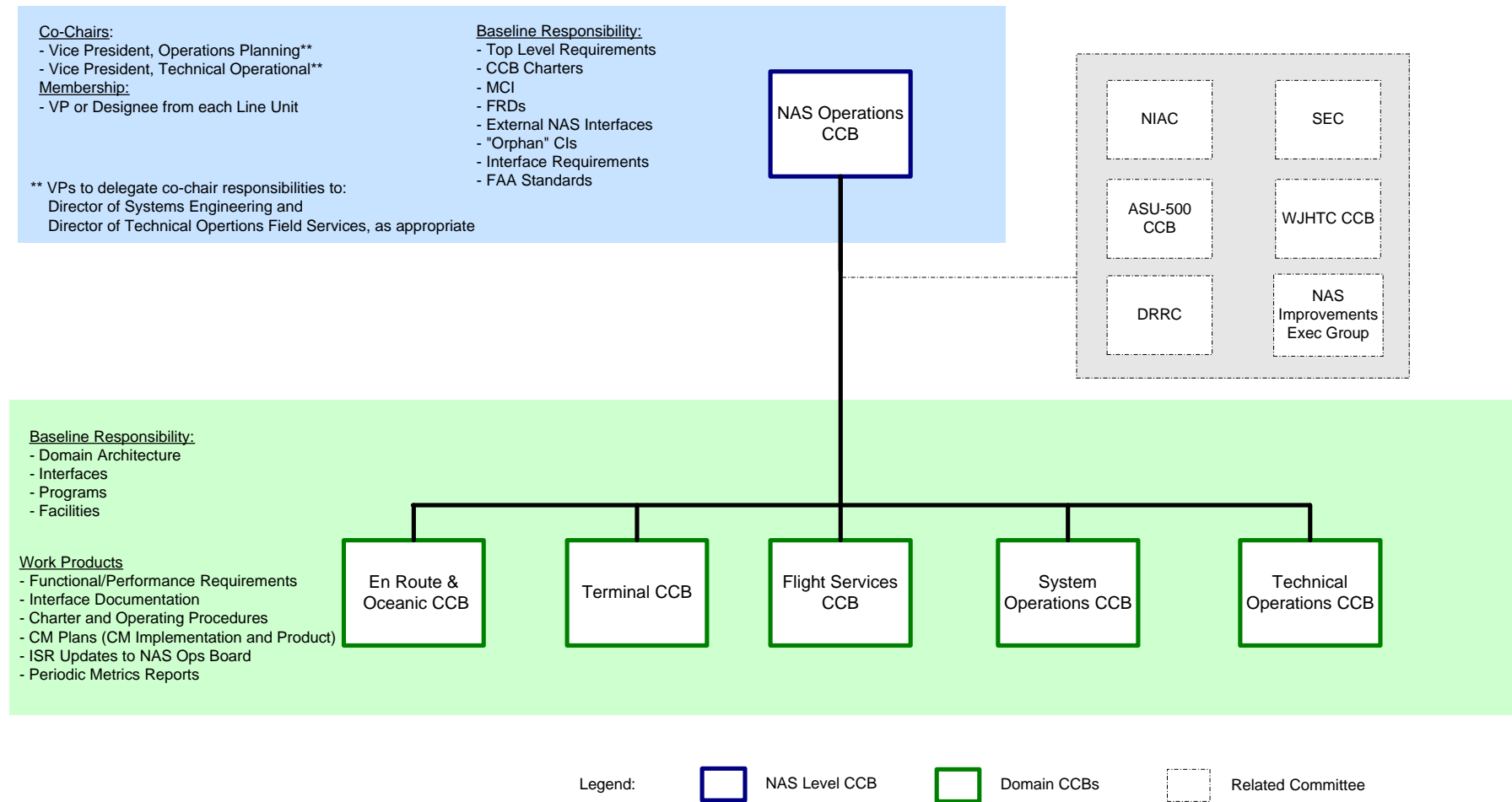
\* ACB-800 (Lab Admin Group) administers ACT CIs

\*\* The ATB CCB Charter is under review.

It includes ATB-400 (formerly AND-400) which handles AND-500 CIs

\*\*\* ASU-500 does not manage NAS systems.

# ATO Configuration Control Board and Related Committees



# NAS Operations and Service Unit (Domain) CCB Charters

- **NAS Operations CCB Charter:**
  - Reflects concept proposed in the CCB structure
  - Will be submitted to the Executive Council for approval by the ATO COO
  - Approval by the ATO COO establishes the new CCB structure.
  - Includes the CM Steering Group function
- **Domain CCB Charters**
  - Allow greater flexibility for Service Units in managing their programs
  - Will be provided to the Service Units upon approval by the NAS Operations CCB

# Next Steps

- Operations Planning CM
  - Schedule meeting(s) with designated focal points
  - Work with focal points on identifying personnel for prescreening of case files, Must Evaluation of NCPs, coordination of changes, and CM Officer responsibilities
  - Obtain approval of the NAS Ops CCB Charter (May 10)
  - Obtain approval of Service Unit CCBs Charters (May 28)
- CM Focal Points
  - Identify CM points of contact via CM POC form (April 23)

# Helpful Links

- **FAA CM:**  
<http://www.faa.gov/cm/>
- **NAS CM Policy**  
<http://www.faa.gov/cm/policy.htm>
- **Configuration Management Steering Group:**  
<http://www.faa.gov/cm/cmsg.htm>
- **NAS-MD-001 - Online**  
<http://172.27.70.66/md001/mdmenu2.asp>
- **CM Automation/WebCM:**  
<http://acm.faa.gov/webcm/>
- **CM Points of Contact Listing**  
<http://caeg.faa.gov/Cm/index.cfm?current=10>
- **ATO Website**  
<http://ato.faa.gov>